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" $(B+1+A_1)$ " read  $(B+1-A_1)$ ; line 19, for "hypotenuse" read hypotenuse; line 22, leave out comma after 6; line 26, for " $p, b, d,$ " read  $p, d, b,$ ; line 30, for " $13, 14, 15,$ " read 13, 15, 14; page 369, line 8, for "from" read for; line 25, for "the" read their; line 35, for " $a^m+1$ " read  $a^m+1$ ; page 370, line 2, insert a comma before the sign of equality; and credit J. H. Drummond with a solution of No. 32.

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#### NOTES, CRITICISMS, ETC., BY ARTEMUS MARTIN, LL. D.

On page 285 Mr. Adecock gives "An Equation for the sum of Squares equal a Square" which he says he has not seen published. I used the same method in the *Mathematical Magazine*, Vol. II., page 71, to find *three* square numbers whose sum is a square; and in a paper I had read at the last meeting of the American Association for the Advancement of Science I found in the same way *four* squares whose sum is a square. It is easily seen that the formula may be extended so as to find any number of squares whose sum is a square.

Note on Solutions of Problem 27, pp. 329-331.—In the *Mathematical Magazine*, Vol. II., No. 9, page 157, I have given a general method of finding any number (greater than two) of positive cube numbers whose sum is a cube, and on page 158 applied it to the case of five cubes, obtaining the set

$$6^3 + 11^3 + 13^3 + 18^3 + 20^3 = 26^3.$$

In Problem 42, p. 332, " $2a^2 + 2b^2 - c^2 + d^2$ " should be  $2a^2 + 2b^2 = c^2 + d^2$ .

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#### PROBLEMS.

45. Proposed by J. K. ELLWOOD, A. M., Principal of Colfax School, Pittsburg, Penn.

Solve the equation  $x^3 + y^3 = a^2$ .

46. Proposed by JOSIAH H. DRUMMOND, LL. D., Portland, Maine.

Give a general solution, finding such values of  $a$  and  $b$  in  $x^2 + xy\sqrt{xy} = a$  and  $y^2 + y\sqrt{xy} = b$  as will make  $x$  and  $y$  integral.